

Type SHD-PCG Three-Conductor Portable Power Cable 5kV

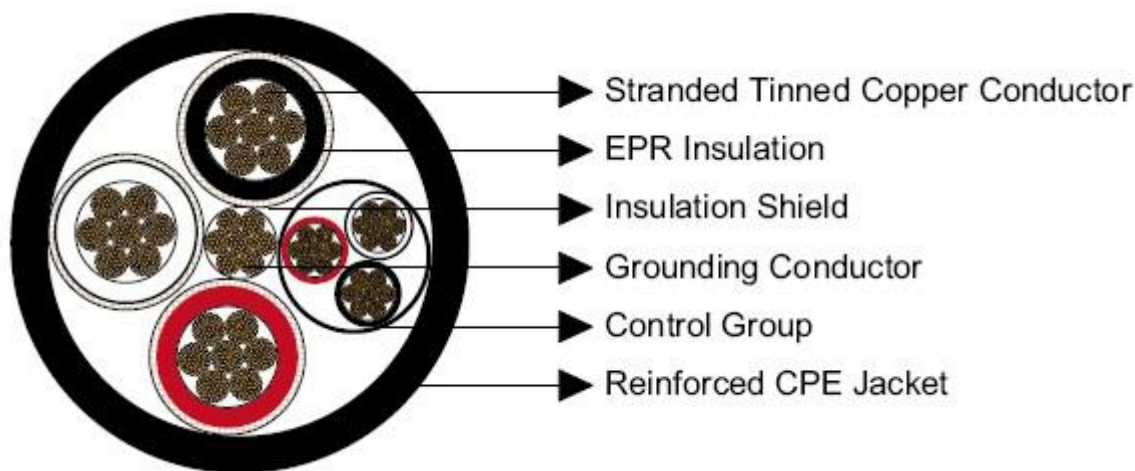
Applications

These heavy duty cables are designed for use on longwall shearers, where three shielded power conductors, three unshielded control conductors, and a grounding conductor are required.

Standards

- ICEA S-75-381/NEMA WC 58
- ASTM B 172
- ASTM B 33
- CAN/CSA-C22.2 No.96

Construction



Conductors: Stranded annealed tinned copper conductor.

Insulation:EPR.

Insulation Shield:Non-conducting Tape + Tinned copper/textile braid.

Control Group (3 Conductor):Tinned copper conductor, EPR insulation and thermosetting sheath.

Colour of insulation: Black, white and red.

Grounding Conductor:Tinned copper conductor, located in the center of the cable.

Sheath: Reinforced extra-heavy-duty Chlorinated Polyethylene(CPE), black. Other sheath materials can be offered upon request.

Options:

Other jacket materials such as CSP/PCP/NBR/PVC are available upon request.

Two-layer jacket with reinforcing fibre between the two layers can be offered as an option.

Mechanical and Thermal Properties

Minimum Bending Radius: 6×OD

Maximum Operating Temperature: +90℃

Dimensions and Weight:

Construction	No. of Strands	Grounding Conductor Size	Control Conductor Size	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Nominal Weight	Ampacity

No. of cores×AWG/kcmil	-	AWG/kcmil	AWG/kcmil	inch	mm	inch	mm	inch	mm	lbs/kft	kg/km	A
3×1/0	259	3	8	0.08	2.0	0.205	5.2	2.05	52.1	3092	4602	211
3×2/0	329	2	8	0.08	2.0	0.220	5.6	2.25	57.1	3698	5503	243
3×3/0	413	1	8	0.08	2.0	0.220	5.6	2.32	58.9	4295	6392	279
3×4/0	532	1/0	8	0.08	2.0	0.250	6.3	2.62	66.5	5115	7612	321

Ampacity-Based on a conductor temperature of 90℃ and an ambient air temperature of 40℃, per ICEA S-75-381.